

Supplementary data

Monitoring DOM in Drinking Water Supply Systems Using DOC, COD_{Mn}, UV and Fluorescence Measurements

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Table S1 Characteristics of water quality of raw water, finished water and tap water 1 in the Plant B and Plant Z drinking water supply systems (DWSS) during the study period from June 2018 to September 2019.

Parameters	DWSS-B									DWSS-Z								
	Raw water□			Finished water			Tap water 1			Raw water□			Finished water			Tap water 1		
	Range	Mean	Std.	Range	Mean	Std.	Range	Mean	Std.	Range	Mean	Std.	Range	Mean	Std.	Range	Mean	Std.
Water temperature(°C)	1-30	18.12	8.85	ND	ND	ND	ND	ND	ND	3-30	18.10	8.78	ND	ND	ND	ND	ND	ND
Dissolved oxygen (mg/L)	6.74-11.50	8.79	1.67	ND	ND	ND	ND	ND	ND	6.62-11.80	8.84	1.78	ND	ND	ND	ND	ND	ND
Total phosphorus (mg/L)	0.05-0.13	0.09	0.02	ND	ND	ND	ND	ND	ND	0.08-0.13	0.08	0.02	ND	ND	ND	ND	ND	ND
Total nitrogen (mg/L)	1.41-3.22	1.98	0.47	ND	ND	ND	ND	ND	ND	1.50-3.35	2.11	0.59	ND	ND	ND	ND	ND	ND
Ammonia nitrogen (mg/L)	< 0.02 ^a -0.07	0.02	0.02	ND	ND	ND	ND	ND	ND	< 0.02 ^a -0.18	0.06	0.06	ND	ND	ND	ND	ND	ND
Nitrate nitrogen (mg/L)	1.36-1.81	1.65	0.16	1.29-1.77	1.60	0.15	1.30-1.78	1.60	0.15	1.15-2.25	1.51	0.28	1.08-2.34	1.44	0.30	1.15-2.34	1.51	0.30
pH	7.52-8.04	7.78	0.16	7.39-7.74	7.51	0.10	7.43-7.87	7.54	0.11	7.61-8.01	7.80	0.14	7.32-7.72	7.51	0.12	7.33-7.81	7.53	0.13
Sulphate (mg/L)	30.80-39.70	34.76	2.95	28.10-37.60	33.00	2.86	28.10-37.60	33.05	2.69	30.20-45.70	36.46	4.48	29.60-45.00	37.18	4.72	30.30-44.90	36.98	4.44
Chloride (mg/L)	10.40-20.00	14.78	2.53	13.20-22.70	17.86	2.61	13.70-22.70	17.87	2.51	11.10-20.40	15.52	2.46	12.10-25.50	19.16	3.25	12.10-25.50	19.25	3.37
Free residual chlorine (mg/L)	ND	ND	ND	0.93-1.14	1.03	0.07	0.35-0.98	0.73	0.18	ND	ND	ND	0.95-1.08	1.00	0.04	0.34-1.03	0.70	0.23

Notes: (1) not determined (ND); standard deviation (Std.). (2) ^a The limit of quantitation (LOQ) is 0.02 mg/L for ammonia nitrogen, and the concentrations below LOQ were recorded as LOQ/2 for data analysis.